South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • http://www.aqmd.gov

April 22, 2008

Gerardo Rios
Chief – Permits Office
U.S. EPA – Region IX – Air 3
75 Hawthorne Street
San Francisco, CA 94105

Re: Transmittal of Renewal Title V Permit
Biola University
ID 20445 A/N 457009

Dear Mr. Rios: Gerardo

Enclosed is one final renewal Title V permit issued by the South Coast Air Quality Management District (AQMD). The draft copy of this permit was submitted to EPA Region IX for a 45-day review and made available to the public for a 30-day public comment period. The AQMD did not receive any public comments on the draft permit. As of April 22, 2008, this Title V permit replaces the initial Title V permit.

If there are specific questions on the final permit, please contact permitting engineer Maria Vibal of our General Commercial & Energy Team at (909) 396-2422. Questions on the AQMD's Title V permitting program may be referred to me at (909) 396-2662 or Michael D. Mills, the Senior Manager of the team, at (909) 396-2578.

Sincerely,

Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering and Compliance

MN:MDM:RGC:MV
Enclosure
cc: Title V Facility File
Title V Admin File

Certified Mail
Return Receipt Requested

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765



# FACILITY PERMIT TO OPERATE

**BIOLA UNIVERSITY**
**13800 BIOLA AVE**
**LA MIRADA, CA 90639**

## NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

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Facility I.D.#: 020445
Revision #: 5
Date: April 22, 2008

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# BIOLA UNIVERSITY

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765



# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## SECTION A: FACILITY INFORMATION

| | |
|---|---|
| LEGAL OWNER &/OR OPERATOR: | BIOLA UNIVERSITY |
| LEGAL OPERATOR (if different than owner): | |
| EQUIPMENT LOCATION: | 13800 BIOLA AVE<br>LA MIRADA, CA 90639 |
| MAILING ADDRESS: | 13800 BIOLA AVE<br>LA MIRADA, CA 90639 |
| RESPONSIBLE OFFICIAL: | GREG BALSANO |
| TITLE: | VICE PRESIDENT, UNIVERSITY SERVICES |
| TELEPHONE NUMBER: | (562) 944-0351 |
| CONTACT PERSON: | BRIAN PHILLIPS |
| TITLE: | DIRECTOR OF FACILITY SERVICES |
| TELEPHONE NUMBER: | (562) 944-0351 |
| TITLE V PERMIT ISSUED: | April 22, 2008 |
| TITLE V PERMIT EXPIRATION DATE: | April 21, 2013 |

| TITLE V | RECLAIM | |
|---|---|---|
| YES | NOx: | NO |
| | SOx: | NO |
| | CYCLE: | 0 |
| | ZONE: | COASTAL |

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## SECTION B: RECLAIM Annual Emission Allocation

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## Facility Equipment and Requirements
**(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

| Application number | Permit number | Equipment description |
|---|---|---|
| 392580 | F61809 | I C E (>500 HP) NAT GAS |
| 396250 | F65437 | I C E (>500 HP) NAT GAS |
| 396251 | F69024 | I C E (>500 HP) NAT GAS |
| 405547 | F65436 | SELECTIVE CATALYTIC REDUCTION |
| 405548 | F69025 | SELECTIVE CATALYTIC REDUCTION |
| 430945 | F81680 | SELECTIVE CATALYTIC REDUCTION |

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## FACILITY WIDE CONDITION(S)

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

   A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
   B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]

2. THE OPERATOR SHALL NOT USE OR SELL GASEOUS FUEL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED OVER FOUR HOURS. [RULE 431.1]

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F61809**
**A/N 392580**

**Equipment Description:**

COGENERATION SYSTEM NO. 3 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS FUELED, COGENERATION, MODEL NO. G3516B-LE, SERIAL NO. CAT00000LCME00261, TURBOCHARGED, AFTERCOOLED, 16 CYLINDERS, LEAN BURN, FOUR CYCLE, 1818 BHP, EQUIPPED WITH CATERPILLAR RAPTOR INJECTION WITH AIR/FUEL RATIO CONTROLLER, DRIVING AN ELECTRICAL GENERATOR.

2. HEAT RECOVERY SYSTEM, CAIN, MODEL NO. HRSR-242D28CSP, SERIAL NO. 3782-2094, PRODUCING 2.43 MMBTU/HR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]

4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]

5. THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING AND RECORDKEEPING REQUIREMENTS IN SECTION (f)(1) OF AQMD RULE 1110.2.
[RULE 1110.2]

6. THE ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS :

| COMPOUND | PPMV @ 15% OXYGEN DRY BASIS | GRAMS/BHP-HR |
|---|---|---|
| VOLATILE ORGANIC COMPOUNDS (VOC) | 37 | 0.15 |
| NITROGEN OXIDES (NOx) | 13 | 0.15 |
| CARBON MONOXIDE (CO) | 84 | 0.6 |

[RULE 1303(a)(1)-BACT]

7. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

8. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1401]

9. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

**Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

| | |
|---|---|
| PM: | RULE 404, SEE APPENDIX B FOR EMISSION LIMITS |
| CO: | 2000 PPMV, RULE 1110.2 |
| NOx: | 52 PPMV, RULE 1110.2 |
| VOC: | 362 PPMV, RULE 1110.2 |
| CO: | 0.6 GRAM/BHP-HR, RULE 1303(a)(1)-BACT |
| NOx: | 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT |
| VOC: | 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT |

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F65437**
**A/N 396250**

**Equipment Description:**

COGENERATION SYSTEM NO. 1 CONSISTING OF :

1. INTERNAL COMBUSTION ENGINE (E1), CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G3512-LE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 12 CYLINDERS, FOUR CYCLE, 861 BHP, DRIVING A 600-KW ELECTRICAL GENERATOR.

2. HEAT RECOVERY SYSTEM, CATERPILLAR, PRODUCING 2.63 MMBTU/HR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]

4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]

5. THE CONTROLLED ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS :

| COMPOUND | PPMV @ 15% OXYGEN DRY BASIS | GRAMS/BHP-HR |
|---|---|---|
| VOLATILE ORGANIC COMPOUNDS (VOC) | 35 | 0.15 |
| NITROGEN OXIDES (NOx) | 12 | 0.15 |
| CARBON MONOXIDE (CO) | 81 | 0.6 |

[RULE 1303(b)(2)-OFFSET]

6. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1401]

7. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

**Periodic Monitoring:**

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX AND CO EMISSIONS LIMITS BY CONDUCTING A TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED ANNUALLY BY AN INDEPENDENT TESTING LABORATORY USING A PORTABLE ANALYZER AND IN ACCORDANCE WITH AQMD TESTING GUIDELINES (PROTOCOL) FOR PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE AND SULFUR DIOXIDE AT TITLE V FACILITIES

THE TEST SHALL BE CONDUCTED EVERY QUARTER BY THE OPERATOR OR BY AN INDEPENDENT TESTING LABORATORY USING A PORTABLE ANALYZER AND IN ACCORDANCE WITH AQMD TESTING GUIDELINES (PROTOCOL) FOR PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE AND SULFUR DIOXIDE AT TITLE V FACILITIES

THE TEST FREQUENCY SHALL BE INCREASED TO MONTHLY, NO LATER THAN 30 DAYS AFTER THE DISCOVERY OF AN EXCEEDANCE OF AN EMISSION LIMIT(S).

THE MONTHLY TEST FREQUENCY SHALL BE REDUCED TO AT LEAST QUARTERLY, IF THREE CONSECUTIVE MONTHLY TESTS SHOW COMPLIANCE WITH THE EMISSIONS LIMITS.

THE TEST(S) SHALL BE CONDUCTED WHEN THIS EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004(a)(4)]

**Emissions And Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

PM: RULE 404, *SEE APPENDIX B FOR EMISSION LIMITS*
CO: 2000 PPMV, RULE 1110.2
NOx: 50 PPMV, RULE 1110.2
VOC: 349 PPMV, RULE 1110.2
CO: 0.6 GRAM/BHP-HR, RULE 1110.2
NOx: 0.15 GRAM/BHP-HR, RULE 1110.2
VOC: 0.15 GRAM/BHP-HR, RULE 1110.2

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F69024**
**A/N 396251**

**Equipment Description:**

COGENERATION SYSTEM NO. 2 CONSISTING OF :

1. INTERNAL COMBUSTION ENGINE (E2), CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G3512-LE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 12 CYLINDERS, FOUR CYCLE, 861 BHP, DRIVING A 600-KW ELECTRICAL GENERATOR.

2. HEAT RECOVERY SYSTEM, CATERPILLAR, PRODUCING 2.63 MMBTU/HR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]

4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]

5. THE CONTROLLED ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS :

| COMPOUND | PPMV @ 15% OXYGEN DRY BASIS | GRAMS/BHP-HR |
|---|---|---|
| VOLATILE ORGANIC COMPOUNDS (VOC) | 35 | 0.15 |
| NITROGEN OXIDES (NOx) | 12.75 | 0.15 |
| CARBON MONOXIDE (CO) | 81 | 0.6 |

[RULE 1303(b)(2)-OFFSET]

6. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1401]

# FACILITY PERMIT TO OPERATE
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7. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

**Periodic Monitoring:**

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX AND CO EMISSIONS LIMITS BY CONDUCTING A TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED ANNUALLY BY AN INDEPENDENT TESTING LABORATORY USING A PORTABLE ANALYZER AND IN ACCORDANCE WITH AQMD TESTING GUIDELINES (PROTOCOL) FOR PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE AND SULFUR DIOXIDE AT TITLE V FACILITIES

THE TEST SHALL BE CONDUCTED EVERY QUARTER BY THE OPERATOR OR BY AN INDEPENDENT TESTING LABORATORY USING A PORTABLE ANALYZER AND IN ACCORDANCE WITH AQMD TESTING GUIDELINES (PROTOCOL) FOR PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE AND SULFUR DIOXIDE AT TITLE V FACILITIES

THE TEST FREQUENCY SHALL BE INCREASED TO MONTHLY, NO LATER THAN 30 DAYS AFTER THE DISCOVERY OF AN EXCEEDANCE OF AN EMISSION LIMIT(S).

THE MONTHLY TEST FREQUENCY SHALL BE REDUCED TO AT LEAST QUARTERLY, IF THREE CONSECUTIVE MONTHLY TESTS SHOW COMPLIANCE WITH THE EMISSIONS LIMITS.

THE TEST(S) SHALL BE CONDUCTED WHEN THIS EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004(a)(4)]

**Emissions And Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 2000 PPMV, RULE 1110.2
NOx: 50 PPMV, RULE 1110.2
VOC: 349 PPMV, RULE 1110.2
CO: 0.6 GRAM/BHP-HR, RULE 1110.2
NOx: 0.15 GRAM/BHP-HR, RULE 1110.2
VOC: 0.15 GRAM/BHP-HR, RULE 1110.2

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F65436**
**A/N 405547**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM NO. 1 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 1020SS-2C-14, 5'-4" L. X 2'-6" W. X 4'-4" H., WITH A HONEYCOMB TYPE CATALYST BED, WITH FOUR BLOCKS OF NOx CATALYST CONSISTING OF TWO LAYERS EACH AND FOUR BLOCKS OF OXIDATION CATALYST CONSISTING OF TWO LAYERS EACH.

2. UREA INJECTION CONTROL SYSTEM, MODEL NO. ARIS 2000-2.

3. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 2 & 3.

4. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 1.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
[RULE 1110.2]

4. THE NOx MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
[RULE 1110.2]

5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]

6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]

7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED TWENTY MINUTES FOR EACH COLD START-UP.
[RULE 1110.2]

8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 1000 DEGREES FAHRENHEIT.
[RULE 1110.2]

9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2]

10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1401]

11. THE FIFTEEN MINUTE AVERAGE NOx CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 12 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE IS ABOVE 600 DEGREES FAHRENHEIT.
[RULE 1110.2]

12. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE 15-MINUTE AVERAGE NOx CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NOx MONITOR.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

13. A NOx MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NOx CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 12. THIS NOx MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

14. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

15. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

# FACILITY PERMIT TO OPERATE
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[RULE 1110.2]

**Emissions And Requirements:**

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

NH3: 10 PPMV, RULE 1401
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F69025**
**A/N 405548**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM NO. 2 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 1020SS-2C-14, 5'-4" L. X 2'-6" W. X 4'-4" H., WITH A HONEYCOMB TYPE CATALYST BED, WITH FOUR BLOCKS OF NOx CATALYST CONSISTING OF TWO LAYERS EACH AND FOUR BLOCKS OF OXIDATION CATALYST CONSISTING OF TWO LAYERS EACH.

2. UREA INJECTION CONTROL SYSTEM, MODEL NO. ARIS 2000-2.

3. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 1 & 3.

4. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 2.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
[RULE 1110.2]

4. THE NOx MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
[RULE 1110.2]

5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]

6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]

7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED TWENTY MINUTES FOR EACH COLD START-UP.
[RULE 1110.2]

8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 1000 DEGREES FAHRENHEIT.
[RULE 1110.2]

9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2]

10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1401]

11. THE FIFTEEN MINUTE AVERAGE NOx CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 12.75 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE IS ABOVE 600 DEGREES FAHRENHEIT.
[RULE 1110.2]

12. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE 15-MINUTE AVERAGE NOx CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NOx MONITOR.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

13. A NOx MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NOx CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 12. THIS NOx MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

14. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]

15. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2]

**Emissions And Requirements:**

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

NH3: 10 PPMV, RULE 1401
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## PERMIT TO OPERATE

**Permit No. F81680**
**A/N 430945**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM NO. 3 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 2015SS-18, WITH A HONEYCOMB TYPE CATALYST BED, WITH EIGHT WHOLE (24" L. X 24" W. X 3 1/2" H) AND EIGHT HALF (12" L. X 24" W. X 3 1/2" H) BLOCKS OF NOx CATALYST COMPRISING FOUR LAYERS.

2. OXIDATION CATALYST SYSTEM, JOHNSON MATTHEY, MODEL NO. 1020SS-18, WITH A HONEYCOMB TYPE CATALYST BED, WITH TWO WHOLE BLOCKS OF OXIDATION CATALYST CONSISTING OF ONE LAYER, ONE BLOCK WIDE X TWO BLOCKS HIGH.

3. UREA INJECTION CONTROL SYSTEM, JOHNSON MATTHEY, EQUIPPED WITH AIR ATOMIZING NOZZLES.

4. COOLING BLOWER, NEW YORK BLOWER CO., MODEL NO. 2410A, 1800 CFM.

5. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 1 & 2.

6. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) AT THE OUTLET OF THE SCR.

7. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 3.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
   [RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
   [RULE 204]

3. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
   [RULE 1110.2, RULE 1303(a)(1)-BACT]

4. THE NOx MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
   [RULE 1110.2, RULE 1303(a)(1)-BACT]

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5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED THIRTY MINUTES FOR EACH COLD START-UP.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 850 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

11. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE FOLLOWING INFORMATION :

A. THE DATE AND TIME.
B. THE HOURLY AVERAGE AMOUNT OF FUEL USED.
C. THE 15-MINUTE AVERAGE NOx CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NOx MONITOR AND CEMS.
D. THE EXHAUST GAS INLET AND OUTLET TEMPERATURE TO THE SCR UNIT.
E. THE UREA INJECTION RATE IN LBS/HR.
F. THE TOTAL TIME ELAPSED FROM COLD START-UP TO REACHING AN SCR INLET TEMPERATURE OF 600 DEGREES FAHRENHEIT.
G. THE RATIO OF THE AMMONIA MOLAR FLOW RATE TO THE INLET NOx MOLAR FLOW RATE.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

12. A NOx MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NOx CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 11C. THIS NOx MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

13. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

14. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

15. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) APPROVED BY AQMD ACCORDING TO RULES 218, 218.1 AND 1110.2 SHALL BE INSTALLED AND MAINTAINED. IT SHALL MEASURE, OVER A FIFTEEN MINUTE AVERAGE TIME PERIOD, AND RECORD THE INTERNAL COMBUSTION ENGINE EXHAUST STACK FOR NOx AND O2 CONCENTRATIONS, ON A DRY BASIS. THE SYSTEM SHALL ALSO CONVERT THE ACTUAL NOx CONCENTRATIONS TO A CORRECTED CONCENTRATION AT 15 PERCENT OXYGEN, ON A DRY BASIS, AND CONTINUOUSLY RECORD THE CORRECTED STACK NOx CONCENTRATIONS. THIS MONITORING SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF RULES 218 AND 218.1.
[RULE 218, RULE 218.1, RULE 1110.2, RULE 1303(b)(2)-OFFSET]

16. THE CEMS SHALL BE EQUIPPED WITH A WARNING DEVICE WHICH SHALL ACTIVATE WHEN THE NOx CONCENTRATION, AVERAGED OVER 15 MINUTES, EXCEEDS THE EMISSION LIMIT OF 13 PPMVD AT 15% OXYGEN.
[RULE 1110.2, RULE 1303(a)(1)-BACT]

17. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 15. THESE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]

**Emissions And Requirements:**

18. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

NH3: 10 PPMV, RULE 1401, RULE 1303(a)(1)-BACT
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

**Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF:

   A. COATING TYPE,
   B. VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS,
   C. VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

   FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF:

   A. COATING TYPE,
   B. VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS,
   C. VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.
   [RULE 3004 (a) (4)]

**Emissions And Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

   VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

# RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
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**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, BOILER, > > 400,000 BTU/HR BUT < 2 MMBTU/HR

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| PM: | 0.1 gr/scf, RULE 409 |
| NOx: | 30 PPMV, RULE 1146.2 |
| CO: | 400 PPMV, RULE 1146.2 |
| CO: | 2000 PPMV, RULE 407 |

# FACILITY PERMIT TO OPERATE
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**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| REFRIGERANT: | RULE 1415 |
| REFRIGERANT: | 40CFR 82 SUBPART F |
| REFRIGERANT: | 40CFR 82 SUBPART G |

# FACILITY PERMIT TO OPERATE
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**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| REFRIGERANT: | RULE 1415 |
| REFRIGERANT: | 40CFR 82 SUBPART F |
| REFRIGERANT: | 40CFR 82 SUBPART G |

# FACILITY PERMIT TO OPERATE
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**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   $CR^{+6}$: RULE 1404

# FACILITY PERMIT TO OPERATE
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**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS.

**Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| REFRIGERANT: | RULE 1415 |
| REFRIGERANT: | 40CFR 82 SUBPART F |
| REFRIGERANT: | 40CFR 82 SUBPART G |

# FACILITY PERMIT TO OPERATE
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## SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]

   a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
   b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
   c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]

2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]

3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statues of other governmental agencies. [204]

4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]

6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]

## SECTION E: ADMINISTRATIVE CONDITIONS

7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]

   a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
   b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
   c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
   d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO2) and be averaged over 15 consecutive minutes; [407]
   e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO2) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]
   f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O2) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]

8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]

   a. Brief description of the equipment tested.
   b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
   c. Operating conditions under which the test will be performed.
   d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream)

## SECTION E: ADMINISTRATIVE CONDITIONS

e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
f. Description of calibration and quality assurance procedures.
g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).

9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]

a. The results of the source test.
b. Brief description of the equipment tested.
c. Operating conditions under which the test was performed.
d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream)
.
e. Field and laboratory data forms, strip charts and analyses.
f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.

10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]

11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

# FACILITY PERMIT TO OPERATE
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## SECTION F: RECLAIM Monitoring and Source Testing Requirements

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
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## SECTION G: Recordkeeping and Reporting Requirements for RECLAIM Sources

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
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## SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

See Section D of this permit for any Permit to Construct issued to this facility.

# FACILITY PERMIT TO OPERATE
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## SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of *Regulation XXX - Title V Permits*; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

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## SECTION J: AIR TOXICS

NOT APPLICABLE

# FACILITY PERMIT TO OPERATE
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SECTION K: TITLE V Administration

## GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]

2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

**Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that the initial Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]

4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

**Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

**Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

**Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:

(A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

(B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

**COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

(A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or

(B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

(A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;

(B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

(D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

SECTION K: TITLE V Administration

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]

15. Nothing in this permit or in any permit shield can alter or affect:

    (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;

    (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;

    (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;

    (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;

    (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and

    (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]

16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after

commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

SECTION K: TITLE V Administration

**EMERGENCY PROVISIONS**

17. An emergency[1] constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:

    (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:

        (1) An emergency occurred and the operator can identify the cause(s) of the emergency;

        (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;

        (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,

        (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

    (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]

18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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1 "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or imporper operation, or operator error.

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

SECTION K: TITLE V Administration

## RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

    (A) The date, place as defined in the Title V permit, and time of sampling or measurements;

    (B) The date(s) analyses were performed;

    (C) The company or entity that performed the analyses;

    (D) The analytical techniques or methods used;

    (E) The results of such analyses; and

    (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

## REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

    (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

    (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

(C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.

(D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]

23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]

24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:

(A) Identification of each permit term or condition that is the basis of the certification;

(B) The compliance status during the reporting period;

(C) Whether compliance was continuous or intermittent;

(D) The method(s) used to determine compliance over the reporting period and currently, and

(E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

## PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## SECTION K: TITLE V Administration

*FACILITY RULES*

*This facility is subject to the following rules and regulations:*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 104 | 1-9-1976 | Federally enforceable |
| RULE 1110.2 | 6-3-2005 | Non federally enforceable |
| RULE 1113 | 11-8-1996 | Federally enforceable |
| RULE 1113 | 7-13-2007 | Non federally enforceable |
| RULE 1146.2 | 1-7-2005 | Non federally enforceable |
| RULE 1146.2 | 1-9-1998 | Federally enforceable |
| RULE 1171 | 11-7-2003 | Federally enforceable |
| RULE 1171 | 7-14-2006 | Non federally enforceable |
| RULE 118 | 12-7-1995 | Non federally enforceable |
| RULE 1303(a)(1)-BACT | 5-10-1996 | Federally enforceable |
| RULE 1303(b)(2)-Offset | 5-10-1996 | Federally enforceable |
| RULE 1404 | 4-6-1990 | Non federally enforceable |
| RULE 1415 | 10-14-1994 | Non federally enforceable |
| RULE 204 | 10-8-1993 | Federally enforceable |
| RULE 217 | 1-5-1990 | Federally enforceable |
| RULE 218 | 5-14-1999 | Non federally enforceable |
| RULE 218 | 8-7-1981 | Federally enforceable |
| RULE 218.1 | 5-14-1999 | Non federally enforceable |
| RULE 219 | 6-1-2007 | Non federally enforceable |
| RULE 219 | 9-4-1981 | Federally enforceable |
| RULE 2202 | 2-6-2004 | Non federally enforceable |
| RULE 3002 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 11-14-1997 | Federally enforceable |
| RULE 3003 | 3-16-2001 | Non federally enforceable |
| RULE 3004 | 12-12-1997 | Federally enforceable |
| RULE 3005 | 11-14-1997 | Federally enforceable |
| RULE 3005 | 3-16-2001 | Non federally enforceable |
| RULE 3007 | 10-8-1993 | Federally enforceable |
| RULE 304 | 6-9-2006 | Non federally enforceable |

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## SECTION K: TITLE V Administration

| RULE SOURCE | Adopted/Amended Date | FEDERAL Enforceability |
|---|---|---|
| RULE 401 | 11-9-2001 | Non federally enforceable |
| RULE 401 | 3-2-1984 | Federally enforceable |
| RULE 402 | 5-7-1976 | Non federally enforceable |
| RULE 404 | 2-7-1986 | Federally enforceable |
| RULE 407 | 4-2-1982 | Federally enforceable |
| RULE 408 | 5-7-1976 | Federally enforceable |
| RULE 409 | 8-7-1981 | Federally enforceable |
| RULE 430 | 7-12-1996 | Non federally enforceable |
| RULE 431.1 | 6-12-1998 | Federally enforceable |
| RULE 701 | 6-13-1997 | Federally enforceable |
| 40CFR 82 Subpart F | 5-14-1993 | Federally enforceable |

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

NONE

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

(1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.

(2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

### TABLE OF STANDARDS

### VOC LIMITS

### Grams of VOC Per Liter of Coating, Less Water And Less Exempt Compounds

| COATING | Limit* | Effective Date of Adoption | Effective 1/1/1998 | Effective 1/1/1999 | Effective 7/1/2001 | Effective 1/1/2005 | Effective 7/1/2008 |
|---|---|---|---|---|---|---|---|
| Bond Breakers | 350 | | | | | | |
| Clear Wood Finishes | | | | | | | |
| Varnish | 350 | | | | | | |
| Sanding Sealers | 350 | | | | | | |
| Lacquer | 680 | | 550 | | | 275 | |
| Concrete-Curing Compounds | 350 | | | | | | |
| Dry-Fog Coatings | 400 | | | | | | |
| Fire-proofing Exterior Coatings | 350 | 450 | | 350 | | | |
| Fire-Retardant Coatings | | | | | | | |
| Clear | 650 | | | | | | |
| Pigmented | 350 | | | | | | |
| Flats | 250 | | | | 100 | | 50 |
| Graphic Arts (Sign) Coatings | 500 | | | | | | |
| Industrial Maintenance | | | | | | | |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Primers and Topcoats | | | | | | | |
| Alkyds | 420 | | | | | | |
| Catalyzed Epoxy | 420 | | | | | | |
| Bituminous Coatings | 420 | | | | | | |
| Materials | | | | | | | |
| Inorganic Polymers | 420 | | | | | | |
| Vinyl Chloride Polymers | 420 | | | | | | |
| Chlorinated Rubber | 420 | | | | | | |
| Acrylic Polymers | 420 | | | | | | |
| Urethane Polymers | 420 | | | | | | |
| Silicones | 420 | | | | | | |
| Unique Vehicles | 420 | | | | | | |
| Japans/Faux Finishing | 350 | 700 | | 350 | | | |
| Coatings | | | | | | | |
| Magnesite Cement Coatings | 600 | | | 450 | | | |
| Mastic Coatings | 300 | | | | | | |
| Metallic Pigmented Coatings | 500 | | | | | | |
| Multi-Color Coatings | 420 | | 250 | | | | |
| Pigmented Lacquer | 680 | | 550 | | | 275 | |
| Pre-Treatment Wash Primers | 780 | | | | | | |
| Primers, Sealers, and | 350 | | | | | | |
| Undercoaters | | | | | | | |
| Quick-Dry Enamels | 400 | | | | | | |
| Roof Coatings | 300 | | | | | | |
| Shellac | | | | | | | |
| Clear | 730 | | | | | | |
| Pigmented | 550 | | | | | | |
| Stains | 350 | | | | | | |
| Swimming Pool Coatings | | | | | | | |
| Repair | 650 | | | | | | |
| Other | 340 | | | | | | |
| Traffic Coatings | 250 | | 150 | | | | |
| Waterproofing Sealers | 400 | | | | | | |
| Wood Preservatives | | | | | | | |
| Below-Ground | 350 | | | | | | |
| Other | 350 | | | | | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-8-1996]

### TABLE OF STANDARDS (cont.)

### VOC LIMITS

### Grams of VOC Per Liter of Material

| COATING | Limit |
|---|---|
| Low-Solids Coating | 120 |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

(1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.

(2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

# FACILITY PERMIT TO OPERATE
## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS
## [RULE 1113 7-13-2007]

### TABLE OF STANDARDS
### VOC LIMITS

**Grams of VOC Per Liter of Coating,**
**Less Water and Less Exempt Compounds**

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Bond Breakers | 350 | | | | | | | |
| Clear Wood Finishes | 350 | | | | | 275 | | |
| Varnish | 350 | | | | | 275 | | |
| Sanding Sealers | 350 | | | | | 275 | | |
| Lacquer | 680 | 550 | | | 275 | | | |
| Clear Brushing Lacquer | 680 | | | | 275 | | | |
| Concrete-Curing Compounds | 350 | | | | | | 100 | |
| Concrete-Curing Compounds For Roadways and Bridges** | 350 | | | | | | | |
| Dry-Fog Coatings | 400 | | | | | | 150 | |
| Fire-Proofing Exterior Coatings | 450 | 350 | | | | | | |
| Fire-Retardant Coatings*** | | | | | | | | |
| Clear | 650 | | | | | | | |
| Pigmented | 350 | | | | | | | |
| Flats | 250 | 100 | | | | | | 50 |
| Floor Coatings | 420 | | 100 | | | 50 | | |
| Graphic Arts (Sign) Coatings | 500 | | | | | | | |
| Industrial Maintenance (IM) Coatings | 420 | | | 250 | | 100 | | |
| High Temperature IM Coatings | | | 420 | | | | | |
| Zinc-Rich IM Primers | 420 | | 340 | | | 100 | | |
| Japans/Faux Finishing Coatings | 700 | 350 | | | | | | |
| Magnesite Cement Coatings | 600 | 450 | | | | | | |
| Mastic Coatings | 300 | | | | | | | |
| Metallic Pigmented Coatings | 500 | | | | | | | |
| Multi-Color Coatings | 420 | 250 | | | | | | |
| Nonflat Coatings | 250 | | 150 | | | 50 | | |
| Nonflat High Gloss | 250 | | 150 | | | | 50 | |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

| COATING CATEGORY | Ceiling Limit* | Current Limit | Effective Date | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1/1/03 | 1/1/04 | 1/1/05 | 7/1/06 | 7/1/07 | 7/1/08 |
| Pigmented Lacquer | 680 | 550 | | | 275 | | | |
| Pre-Treatment Wash Primers | 780 | | 420 | | | | | |
| Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Quick-Dry Enamels | 400 | | 250 | | | 150 | 50 | |
| Quick-Dry Primers, Sealers, and Undercoaters | 350 | | 200 | | | 100 | | |
| Recycled Coatings | | | 250 | | | | | |
| Roof Coatings<br>Roof Coatings, Aluminum | 300<br>500 | | 250 | | 50<br>100 | | | |
| Roof Primers, Bituminous | 350 | | 350 | | | | | |
| Rust Preventative Coatings | 420 | | 400 | | | 100 | | |
| Shellac<br>Clear<br>Pigmented | <br>730<br>550 | | | | | | | |
| Specialty Primers | 350 | | | | | 250 | 100 | |
| Stains<br>Stains, Interior | 350<br>250 | | 250 | | | | 100 | |
| Swimming Pool Coatings<br>Repair<br>Other | <br>650<br>340 | | 340 | | | | | |
| Traffic Coatings | 250 | 150 | | | | | 100 | |
| Waterproofing Sealers | 400 | | 250 | | | 100 | | |
| Waterproofing Concrete/Masonry Sealers | 400 | | | | | 100 | | |
| Wood Preservatives<br>Below-Ground<br>Other | <br>350<br>350 | | | | | | | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1113 7-13-2007]

### TABLE OF STANDARDS (cont.)
### VOC LIMITS

**Grams of VOC Per Liter of Material**

| COATING | Limit |
|---|---|
| Low-Solids Coating | 120 |

# FACILITY PERMIT TO OPERATE
# BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS VOC g/l (lb/gal) |
|---|---|
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | |
| (i) General | 25 (0.21) |
| (ii) Electrical Apparatus Components & Electronic Components | 500 (4.2) |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) |
| (B) Repair and Maintenance Cleaning | |
| (i) General | 25 (0.21) |
| (ii) Electrical Apparatus Components & Electronic Components | 900 (7.5) |
| (iii) Medical Devices & Pharmaceuticals | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) |
| (B) General Work Surfaces | 600 (5.0) |

# FACILITY PERMIT TO OPERATE
## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS VOC g/l (lb/gal) |
|---|---|
| (C) Cleaning of Coatings or Adhesives Application Equipment | 550 (4.6) |
| (D) Cleaning of Ink Application Equipment | |
| (i) General | 25 (0.21) |
| (ii) Flexographic Printing | 25 (0.21) |
| (iii) Gravure Printing | |
| (A) Publication | 750 (6.3) |
| (B) Packaging | 25 (0.21) |
| (iv) Lithographic or Letter Press Printing | |
| (A) Roller Wash – Step 1 | 600 (5.0) |
| (B) Roller Wash-Step 2, Blanket Wash, & On-Press Components | 800 (6.7) |
| (C) Removable Press Components | 25 (0.21) |
| (v) Screen Printing | 750 (6.3) |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 800 (6.7) |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-7-2003]

| SOLVENT CLEANING ACTIVITY | CURRENT LIMITS VOC g/l (lb/gal) |
|---|---|
| (vii) Specialty Flexographic Printing | 600 (5.0) |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) |

# FACILITY PERMIT TO OPERATE
## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 7-14-2006]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008 |
|---|---|---|
| SOLVENT CLEANING ACTIVITY | VOC g/l (lb/gal) | VOC g/l (lb/gal) |
| (A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application | | |
| (i) General | 25 (0.21) | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | |
| (iii) Medical Devices & Pharmaceuticals | 800 (6.7) | |
| (B) Repair and Maintenance Cleaning | | |
| (i) General | 25 (0.21) | |
| (ii) Electrical Apparatus Components & Electronic Components | 100 (0.83) | |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 7-14-2006]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008 |
|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (iii) Medical Devices & Pharmaceuticals | | |
| (A) Tools, Equipment, & Machinery | 800 (6.7) | |
| (B) General Work Surfaces | 600 (5.0) | |
| (C) Cleaning of Coatings or Adhesives Application Equipment | 25 (0.21) | |
| (D) Cleaning of Ink Application Equipment | | |
| (i) General | 25 (0.21) | |
| (ii) Flexographic Printingl | 25 (0.21) | |
| (iii) Gravure Printing | | |
| (A) Publication | 100 (0.83) | |
| (B) Packaging | 25 (0.21) | |
| (iv) Lithographic (Offset) or Letter Press Printing | | |
| (A) Roller Wash, Blanket Wash, & On-Press Components | | |
| (I) Newsprint | 100 (0.83) | |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 1171 7-14-2006]

| | CURRENT LIMITS* | EFFECTIVE 1/1/2008 |
|---|---|---|
| **SOLVENT CLEANING ACTIVITY (cont.)** | **VOC g/l (lb/gal)** | **VOC g/l (lb/gal)** |
| (II) Other Substrates | 500 (4.2) | 100 (0.83) |
| (B) Removable Press Components | 25 (0.21) | |
| (v) Screen Printing | 500 (4.2) | 100 (0.83) |
| (vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing) | 650 (5.4) | 100 (0.83) |
| (vii) Specialty Flexographic Printing | 100 (0.83) | |
| (E) Cleaning of Polyester Resin Application Equipment | 25 (0.21) | |

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 404 2-7-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 25 or less | 883 or less | 450 | 0.196 | 900 | 31780 | 118 | 0.0515 |
| 30 | 1059 | 420 | .183 | 1000 | 35310 | 113 | .0493 |
| 35 | 1236 | 397 | .173 | 1100 | 38850 | 109 | .0476 |
| 40 | 1413 | 377 | .165 | 1200 | 42380 | 106 | .0463 |
| 45 | 1589 | 361 | .158 | 1300 | 45910 | 102 | .0445 |
| 50 | 1766 | 347 | .152 | 1400 | 49440 | 100 | .0437 |
| 60 | 2119 | 324 | .141 | 1500 | 52970 | 97 | .0424 |
| 70 | 2472 | 306 | .134 | 1750 | 61800 | 92 | .0402 |

# FACILITY PERMIT TO OPERATE

## BIOLA UNIVERSITY

## APPENDIX B: RULE EMISSION LIMITS [RULE 404 2-7-1986]

| Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | | Volume Discharged Calculated as Dry Gas At Standard Conditions | | Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions | |
|---|---|---|---|---|---|---|---|
| Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot | Cubic meters Per Minute | Cubic feet Per Minute | Milligrams per Cubic Meter | Grains per Cubic Foot |
| 80 | 2825 | 291 | .127 | 2000 | 70630 | 87 | .0380 |
| 90 | 3178 | 279 | .122 | 2250 | 79460 | 83 | .0362 |
| 100 | 3531 | 267 | .117 | 2500 | 88290 | 80 | .0349 |
| 125 | 4414 | 246 | .107 | 3000 | 105900 | 75 | .0327 |
| 150 | 5297 | 230 | .100 | 4000 | 141300 | 67 | .0293 |
| 175 | 6180 | 217 | .0947 | 5000 | 176600 | 62 | .0271 |
| 200 | 7063 | 206 | .0900 | 6000 | 211900 | 58 | .0253 |
| 250 | 8829 | 190 | .0830 | 8000 | 282500 | 52 | .0227 |
| 300 | 10590 | 177 | .0773 | 10000 | 353100 | 48 | .0210 |
| 350 | 12360 | 167 | .0730 | 15000 | 529700 | 41 | .0179 |
| 400 | 14130 | 159 | .0694 | 20000 | 706300 | 37 | .0162 |
| 450 | 15890 | 152 | .0664 | 25000 | 882900 | 34 | .0148 |
| 500 | 17660 | 146 | .0637 | 30000 | 1059000 | 32 | .0140 |
| 600 | 21190 | 137 | .0598 | 40000 | 1413000 | 28 | .0122 |
| 700 | 24720 | 129 | .0563 | 50000 | 1766000 | 26 | .0114 |
| 800 | 28250 | 123 | .0537 | 70000 or more | 2472000 or more | 23 | .0100 |